**Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.**

| BOQ Item No | Description / Chainage | Side | Nos | L | B1 | B2 | Avg width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work | | | | | | | | | |
| | **culverts, kariyanna layout** | | | | | | | | | |
| | C1-3rd C/S-side wall | 1*2 | 2.00 | 5.00 | | | 0.60 | 0.10 | **0.60** | |
| | C2- 1st c/s-side wall | 1*2 | 2.00 | 4.30 | | | 0.60 | 0.10 | **0.52** | |
| | | | | | | **Total Qty in Cum** | | | **1.12** | |
| **Measurements recorded on : 02/01/18** | | | | | | | | | | |
| 21 | Providing and fixing **RCC Precast cover slab of 250mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate) | | | | | | | | | |
| | **culverts, kariyanna layout** | | | | | | | | | |
| | C1-3rd C/S | | 8.00 | 1.80 | | | 0.6 | | 8.64 | |
| | C2- 1st c/s | | 7.00 | 1.80 | | | 0.6 | | 7.56 | |
| | | | | | | **Total Qty in Sqm** | | | **16.20** | |
| **Measurements recorded on :06/01/18** | | | | | | | | | | |
| 22 | KSRRB M300- Scarifying Existing Granular Surface to a Depth of 50mm by Manual Means. KSRRB M300-52.1. Scarifying the existing granular road surface to a depth of 50mm and disposal of scarified material and complete as per specifications. MORTH Specification No. 305.4.3 (P.No.148, I.No.19.58 of PW,P&IWTD S.R 2016-17) | | | | | | | | | |
| | **Cross Road 1 in 2nd Cross** | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 3.70 | 4.10 | 3.90 | 58.50 | |
| | 15.00 | 31.00 | | 1.00 | 16.00 | 4.10 | 4.10 | 4.10 | 65.60 | |
| | **Cross Road 2 in 2nd Cross** | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 4.70 | 4.70 | 4.70 | 70.50 | |

Consultant

Assistant Engineer
06/01/18

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

**Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.**

| BOQ Item No | Description / Chainage | | Side | Nos | L | B1 | B2 | Avg width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 15.00 | 30.00 | | 1.00 | 15.00 | 4.70 | 4.70 | 4.70 | | 70.50 | |
| | 30.00 | 36.00 | | 1.00 | 6.00 | 4.70 | 3.70 | 4.20 | | 25.20 | |
| | **2nd Cross Road, Muniswamappa Layout** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 6.20 | 5.80 | 6.00 | | 90.00 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 5.80 | 5.50 | 5.65 | | 84.75 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 5.50 | 5.30 | 5.40 | | 81.00 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 5.30 | 5.40 | 5.35 | | 80.25 | |
| | 60.00 | 75.00 | | 1.00 | 15.00 | 5.40 | 5.00 | 5.20 | | 78.00 | |
| | 75.00 | 90.00 | | 1.00 | 15.00 | 5.00 | 5.20 | 5.10 | | 76.50 | |
| | 90.00 | 105.00 | | 1.00 | 15.00 | 5.20 | 5.10 | 5.15 | | 77.25 | |
| | 105.00 | 120.00 | | 1.00 | 15.00 | 5.10 | 5.30 | 5.20 | | 78.00 | |
| | 120.00 | 135.00 | | 1.00 | 15.00 | 5.30 | 5.70 | 5.50 | | 82.50 | |
| | 135.00 | 150.00 | | 1.00 | 15.00 | 5.70 | 5.60 | 5.65 | | 84.75 | |
| | 150.00 | 157.80 | | 1.00 | 7.80 | 5.60 | 5.90 | 5.75 | | 44.85 | |
| | **1st Cross Road,Muniswamappa layout** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 5.30 | 5.80 | 5.55 | | 83.25 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 5.80 | 5.90 | 5.85 | | 87.75 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 5.90 | 5.90 | 5.90 | | 88.50 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 5.90 | 5.70 | 5.80 | | 87.00 | |
| | 60.00 | 70.00 | | 1.00 | 10.00 | 5.70 | 5.80 | 5.75 | | 57.50 | |
| | **1st A Cross Road,Muniswamappa Layout** | | | | | | | | | | |
| | 0.00 | 2.00 | | 1.00 | 2.00 | 6.30 | 6.50 | 6.40 | | 12.80 | Approach |
| | 2.00 | 17.00 | | 1.00 | 15.00 | 6.20 | 5.90 | 6.05 | | 90.75 | |
| | 17.00 | 32.00 | | 1.00 | 15.00 | 5.90 | 5.80 | 5.85 | | 87.75 | |
| | 32.00 | 47.00 | | 1.00 | 15.00 | 5.80 | 5.70 | 5.75 | | 86.25 | |
| | 47.00 | 67.00 | | 1.00 | 20.00 | 5.70 | 6.56 | 6.13 | | 122.60 | |
| | | | | | | | **Total Qty in Sqm** | | | **1952.30** | |

**Measurements recorded on : 06/01/18**

Consultant

Assistant Engineer

06/1/18

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

**Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.**

| BOQ Item No | Description / Chainage | | Side | Nos | L | B1 | B2 | Avg width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 23 | KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17) | | | | | | | | | | |
| | **2nd cross** | | | | | | | | | | |
| | **From High Tension Wire Road** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 60.00 | 75.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 75.00 | 90.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 90.00 | 105.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 105.00 | 120.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 120.00 | 135.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 135.00 | 150.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 150.00 | 156.20 | | 1.00 | 6.20 | 1.20 | 1.30 | 1.25 | 0.25 | 1.94 | |
| | 156.20 | 171.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | cross road 1 |
| | 171.20 | 186.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 186.20 | 200.20 | | 1.00 | 14.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.38 | cross road 2 |
| | 200.20 | 215.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 215.20 | 230.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 230.20 | 245.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 245.20 | 260.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 260.20 | 275.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 275.20 | 290.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 290.20 | 305.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 305.20 | 320.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 320.20 | 335.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 335.20 | 350.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 350.20 | 365.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 365.20 | 380.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 380.20 | 395.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 395.20 | 413.20 | | 1.00 | 18.00 | 1.20 | 1.30 | 1.25 | 0.25 | 5.63 | |

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

**Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.**

| BOQ Item No | Description Chainage | | Side | Nos | L | B1 | B2 | Avg width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 413.20 | 415.20 | | 1.00 | 2.00 | 1.20 | 1.30 | 1.25 | 0.25 | 0.63 | Approach |
| | | | | | | | Total Qty in Cum | | | 129.75 | |
| Measurements recorded on 16 /01/18 | | | | | | | | | | | |
| 24 | KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016- | | | | | | | | | | |
| | 2nd cross | | | | | | | | | | |
| | From High Tension Wire Road | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 60.00 | 75.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 75.00 | 90.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 90.00 | 105.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 105.00 | 120.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 120.00 | 135.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 135.00 | 150.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 150.00 | 156.20 | | 1.00 | 6.20 | 1.20 | 1.30 | 1.25 | 0.25 | 1.94 | |
| | 156.20 | 171.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | cross road 1 |
| | 171.20 | 186.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 186.20 | 200.20 | | 1.00 | 14.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.38 | cross road 2 |
| | 200.20 | 215.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 215.20 | 230.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 230.20 | 245.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 245.20 | 260.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 260.20 | 275.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 275.20 | 290.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 290.20 | 305.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 305.20 | 320.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 320.20 | 335.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 335.20 | 350.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |

Consultant

M/S. RAM & COMPANY

Assistant Engineer

AE(W2)

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

**Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.**

| BOQ Item No | Description Chainage | | Side | Nos | L | B1 | B2 | Avg width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 350.20 | 365.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 365.20 | 380.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 380.20 | 395.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | 0.25 | 4.69 | |
| | 395.20 | 413.20 | | 1.00 | 18.00 | 1.20 | 1.30 | 1.25 | 0.25 | 5.63 | |
| | 413.20 | 415.20 | | 1.00 | 2.00 | 1.20 | 1.30 | 1.25 | 0.25 | 0.63 | Approach |
| | **For Scarified Portion** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 5.30 | 4.50 | 4.90 | 0.25 | 18.38 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 4.60 | 4.10 | 4.35 | 0.25 | 16.31 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 4.20 | 4.50 | 4.35 | 0.25 | 16.31 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 4.60 | 4.40 | 4.50 | 0.25 | 16.88 | |
| | 60.00 | 75.00 | | 1.00 | 15.00 | 4.50 | 4.20 | 4.35 | 0.25 | 16.31 | |
| | 75.00 | 90.00 | | 1.00 | 15.00 | 4.30 | 4.50 | 4.40 | 0.25 | 16.50 | |
| | 90.00 | 101.00 | | 1.00 | 11.00 | 4.60 | 3.60 | 4.10 | 0.25 | 11.28 | |
| | **Cross Road 1 in 2nd Cross** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 3.70 | 4.10 | 3.90 | 0.25 | 14.63 | |
| | 15.00 | 31.00 | | 1.00 | 16.00 | 4.10 | 4.10 | 4.10 | 0.25 | 16.40 | |
| | **Cross Road 2 in 2nd Cross** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 4.70 | 4.70 | 4.70 | 0.25 | 17.63 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 4.70 | 4.70 | 4.70 | 0.25 | 17.63 | |
| | 30.00 | 36.00 | | 1.00 | 6.00 | 4.70 | 3.70 | 4.20 | 0.25 | 6.30 | |
| | **2nd Cross Road, Muniswamappa Layout** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 6.20 | 5.80 | 6.00 | 0.25 | 22.50 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 5.80 | 5.50 | 5.65 | 0.25 | 21.19 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 5.50 | 5.30 | 5.40 | 0.25 | 20.25 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 5.30 | 5.40 | 5.35 | 0.25 | 20.06 | |
| | 60.00 | 75.00 | | 1.00 | 15.00 | 5.40 | 5.00 | 5.20 | 0.25 | 19.50 | |
| | 75.00 | 90.00 | | 1.00 | 15.00 | 5.00 | 5.20 | 5.10 | 0.25 | 19.13 | |
| | 90.00 | 105.00 | | 1.00 | 15.00 | 5.20 | 5.10 | 5.15 | 0.25 | 19.31 | |
| | 105.00 | 120.00 | | 1.00 | 15.00 | 5.10 | 5.30 | 5.20 | 0.25 | 19.50 | |
| | 120.00 | 135.00 | | 1.00 | 15.00 | 5.30 | 5.70 | 5.50 | 0.25 | 20.63 | |
| | 135.00 | 150.00 | | 1.00 | 15.00 | 5.70 | 5.60 | 5.65 | 0.25 | 21.19 | |
| | 150.00 | 157.80 | | 1.00 | 7.80 | 5.60 | 5.90 | 5.75 | 0.25 | 11.21 | |

Consultant

Assistant Engineer

Assistant Executive Engineer
Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

**Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.**

| BOQ Item No | Description / Chainage | | Side | Nos | L | B1 | B2 | Avg width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **1st Cross Road,Muniswamappa layout** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 5.30 | 5.80 | 5.55 | 0.25 | 20.81 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 5.80 | 5.90 | 5.85 | 0.25 | 21.94 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 5.90 | 5.90 | 5.90 | 0.25 | 22.13 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 5.90 | 5.70 | 5.80 | 0.25 | 21.75 | |
| | 60.00 | 70.00 | | 1.00 | 10.00 | 5.70 | 5.80 | 5.75 | 0.25 | 14.38 | |
| | **1st A Cross Road,Muniswamappa Layout** | | | | | | | | | | |
| | 0.00 | 2.00 | | 1.00 | 2.00 | 6.30 | 6.50 | 6.40 | 0.25 | 3.20 | Approach |
| | 2.00 | 17.00 | | 1.00 | 15.00 | 6.20 | 5.90 | 6.05 | 0.25 | 22.69 | |
| | 17.00 | 32.00 | | 1.00 | 15.00 | 5.90 | 5.80 | 5.85 | 0.25 | 21.94 | 16/1/18 |
| | 32.00 | 47.00 | | 1.00 | 15.00 | 5.80 | 5.70 | 5.75 | 0.25 | 21.56 | |
| | 47.00 | 67.00 | | 1.00 | 20.00 | 5.70 | 6.56 | 6.13 | 0.25 | 30.65 | N.D AE(WZ) 16/01/18 |
| | | | | | | | **Total Qty in Cum** | | | **729.79** | |
| **Measurements recorded on 18/01/18** | | | | | | | | | | | |
| 25 | KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification | | | | | | | | | | |
| | **Above WMM** | | | | | | | | | | |
| | **2nd cross** | | | | | | | | | | |
| | **From High Tension Wire Road** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 60.00 | 75.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 75.00 | 90.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 90.00 | 105.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 105.00 | 120.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 120.00 | 135.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 135.00 | 150.00 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |

Consultant

RAM & COMPANY

Assistant Engineer

N.D AE(WZ)

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

**Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.**

| BOQ Item No | Description Chainage | | Side | Nos | L | B1 | B2 | Avg width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 150.00 | 156.20 | | 1.00 | 6.20 | 1.20 | 1.30 | 1.25 | | 7.75 | |
| | 156.20 | 171.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | cross road 1 |
| | 171.20 | 186.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 186.20 | 200.20 | | 1.00 | 14.00 | 1.20 | 1.30 | 1.25 | | 17.50 | cross road 2 |
| | 200.20 | 215.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 215.20 | 230.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 230.20 | 245.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 245.20 | 260.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 260.20 | 275.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 275.20 | 290.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 290.20 | 305.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 305.20 | 320.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 320.20 | 335.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 335.20 | 350.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 350.20 | 365.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 365.20 | 380.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 380.20 | 395.20 | | 1.00 | 15.00 | 1.20 | 1.30 | 1.25 | | 18.75 | |
| | 395.20 | 413.20 | | 1.00 | 18.00 | 1.20 | 1.30 | 1.25 | | 22.50 | |
| | 413.20 | 415.20 | | 1.00 | 2.00 | 1.20 | 1.30 | 1.25 | | 2.50 | Approach |
| | **For Scarified** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 5.30 | 4.50 | 4.90 | | 73.50 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 4.60 | 4.10 | 4.35 | | 65.25 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 4.20 | 4.50 | 4.35 | | 65.25 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 4.60 | 4.40 | 4.50 | | 67.50 | |
| | 60.00 | 75.00 | | 1.00 | 15.00 | 4.50 | 4.20 | 4.35 | | 65.25 | |
| | 75.00 | 90.00 | | 1.00 | 15.00 | 4.30 | 4.50 | 4.40 | | 66.00 | |
| | 90.00 | 101.00 | | 1.00 | 11.00 | 4.60 | 3.60 | 4.10 | | 45.10 | |
| | **Cross Road 1 in 2nd Cross** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 3.70 | 4.10 | 3.90 | | 58.50 | |
| | 15.00 | 31.00 | | 1.00 | 16.00 | 4.10 | 4.10 | 4.10 | | 65.60 | |
| | **Cross Road 2 in 2nd Cross** | | | | | | | | | 0.00 | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 4.70 | 4.70 | 4.70 | | 70.50 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 4.70 | 4.70 | 4.70 | | 70.50 | |
| | 30.00 | 36.00 | | 1.00 | 6.00 | 4.70 | 3.70 | 4.20 | | 25.20 | |

Consultant

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Assistant Executive Engineer

**Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.**

| BOQ Item No | Description / Chainage | | Side | Nos | L | B1 | B2 | Avg width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **2nd Cross Road, Muniswamappa Layout** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 6.20 | 5.80 | 6.00 | | 90.00 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 5.80 | 5.50 | 5.65 | | 84.75 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 5.50 | 5.30 | 5.40 | | 81.00 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 5.30 | 5.40 | 5.35 | | 80.25 | |
| | 60.00 | 75.00 | | 1.00 | 15.00 | 5.40 | 5.00 | 5.20 | | 78.00 | |
| | 75.00 | 90.00 | | 1.00 | 15.00 | 5.00 | 5.20 | 5.10 | | 76.50 | |
| | 90.00 | 105.00 | | 1.00 | 15.00 | 5.20 | 5.10 | 5.15 | | 77.25 | |
| | 105.00 | 120.00 | | 1.00 | 15.00 | 5.10 | 5.30 | 5.20 | | 78.00 | |
| | 120.00 | 135.00 | | 1.00 | 15.00 | 5.30 | 5.70 | 5.50 | | 82.50 | |
| | 135.00 | 150.00 | | 1.00 | 15.00 | 5.70 | 5.60 | 5.65 | | 84.75 | |
| | 150.00 | 157.80 | | 1.00 | 7.80 | 5.60 | 5.90 | 5.75 | | 44.85 | |
| | **1st Cross Road,Muniswamappa layout** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 5.30 | 5.80 | 5.55 | | 83.25 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 5.80 | 5.90 | 5.85 | | 87.75 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 5.90 | 5.90 | 5.90 | | 88.50 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 5.90 | 5.70 | 5.80 | | 87.00 | |
| | 60.00 | 70.00 | | 1.00 | 10.00 | 5.70 | 5.80 | 5.75 | | 57.50 | |
| | **1st A Cross Road,Muniswamappa Layout** | | | | | | | | | | |
| | 0.00 | 2.00 | | 1.00 | 2.00 | 6.30 | 6.50 | 6.40 | | 12.80 | Approach |
| | 2.00 | 17.00 | | 1.00 | 15.00 | 6.20 | 5.90 | 6.05 | | 90.75 | |
| | 17.00 | 32.00 | | 1.00 | 15.00 | 5.90 | 5.80 | 5.85 | | 87.75 | |
| | 32.00 | 47.00 | | 1.00 | 15.00 | 5.80 | 5.70 | 5.75 | | 86.25 | |
| | 47.00 | 67.00 | | 1.00 | 20.00 | 5.70 | 6.56 | 6.13 | | 122.60 | |
| | | | | | | | **Total Qty in Sqm** | | | **2919.15** | |

**Measurements recorded on 19/01/18**

Consultant

Assistant Engineer

AE(NH)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

**Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.**

| BOQ Item No | Description / Chainage | | Side | Nos | L | B1 | B2 | Avg width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work | | | | | | | | | | |
| | **2nd cross** | | | | | | | | | | |
| | **From High Tension Wire Road** | | | | | | | | | 0.00 | |
| | 101.00 | 120.00 | | 1.00 | 19.00 | 3.70 | 3.10 | 3.40 | | 64.60 | |
| | 120.00 | 135.00 | | 1.00 | 15.00 | 3.20 | 4.00 | 3.60 | | 54.00 | |
| | 135.00 | 150.00 | | 1.00 | 15.00 | 4.10 | 3.80 | 3.95 | | 59.25 | |
| | 150.00 | 156.20 | | 1.00 | 6.20 | 3.90 | 4.30 | 4.10 | | 25.42 | |
| | 156.20 | 171.20 | | 1.00 | 15.00 | 4.40 | 3.90 | 4.15 | | 62.25 | cross road 1 |
| | 171.20 | 186.20 | | 1.00 | 15.00 | 4.00 | 4.20 | 4.10 | | 61.50 | |
| | 186.20 | 200.20 | | 1.00 | 14.00 | 4.30 | 4.00 | 4.15 | | 58.10 | cross road 2 |
| | 200.20 | 215.20 | | 1.00 | 15.00 | 4.10 | 4.20 | 4.15 | | 62.25 | |
| | 215.20 | 230.20 | | 1.00 | 15.00 | 4.30 | 4.00 | 4.15 | | 62.25 | |
| | 230.20 | 245.20 | | 1.00 | 15.00 | 4.10 | 4.40 | 4.25 | | 63.75 | |
| | 245.20 | 260.20 | | 1.00 | 15.00 | 4.50 | 4.40 | 4.45 | | 66.75 | |
| | 260.20 | 275.20 | | 1.00 | 15.00 | 4.50 | 4.70 | 4.60 | | 69.00 | |
| | 275.20 | 290.20 | | 1.00 | 15.00 | 4.80 | 4.70 | 4.75 | | 71.25 | |
| | 290.20 | 305.20 | | 1.00 | 15.00 | 4.80 | 4.40 | 4.60 | | 69.00 | |
| | 305.20 | 320.20 | | 1.00 | 15.00 | 4.50 | 5.00 | 4.75 | | 71.25 | |
| | 320.20 | 335.20 | | 1.00 | 15.00 | 5.10 | 4.30 | 4.70 | | 70.50 | |
| | 335.20 | 350.20 | | 1.00 | 15.00 | 4.40 | 4.70 | 4.55 | | 68.25 | |
| | 350.20 | 365.20 | | 1.00 | 15.00 | 4.80 | 4.20 | 4.50 | | 67.50 | |
| | 365.20 | 380.20 | | 1.00 | 15.00 | 4.30 | 3.80 | 4.05 | | 60.75 | |
| | 380.20 | 395.20 | | 1.00 | 15.00 | 3.90 | 4.20 | 4.05 | | 60.75 | |
| | 395.20 | 413.20 | | 1.00 | 18.00 | 4.30 | 4.70 | 4.50 | | 81.00 | |
| | 413.20 | 415.20 | | 1.00 | 2.00 | 5.10 | 5.20 | 5.15 | | 10.30 | Approach |
| | | | | | | | **Total Qty in Sqm** | | | **1339.67** | |

**Measurements recorded on**

Consultant

M/s. RAM & COMPANY

Assistant Engineer

AE(IV)
18/01/18

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Assistant Executive Engineer

**Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.**

| BOQ Item No | Description / Chainage | | Side | Nos | L | B1 | B2 | Avg width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 27 | KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PWD&WTD SR - 6 2016-17) | | | | | | | | | | |
| | **For Laying DBM =19/01/2018** | | | | | | | | | | |
| | **2nd cross** | | | | | | | | | | |
| | **From High Tension Wire Road** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 6.50 | 5.80 | 6.15 | | 92.25 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 5.80 | 5.40 | 5.60 | | 84.00 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 5.40 | 5.80 | 5.60 | | 84.00 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 5.80 | 5.70 | 5.75 | | 86.25 | |
| | 60.00 | 75.00 | | 1.00 | 15.00 | 5.70 | 5.50 | 5.60 | | 84.00 | |
| | 75.00 | 90.00 | | 1.00 | 15.00 | 5.50 | 5.80 | 5.65 | | 84.75 | |
| | 90.00 | 105.00 | | 1.00 | 15.00 | 5.80 | 4.90 | 5.35 | | 80.25 | |
| | 105.00 | 120.00 | | 1.00 | 15.00 | 4.90 | 4.40 | 4.65 | | 69.75 | |
| | 120.00 | 135.00 | | 1.00 | 15.00 | 4.40 | 5.30 | 4.85 | | 72.75 | |
| | 135.00 | 150.00 | | 1.00 | 15.00 | 5.30 | 5.10 | 5.20 | | 78.00 | |
| | 150.00 | 156.20 | | 1.00 | 6.20 | 5.10 | 5.60 | 5.35 | | 33.17 | |
| | 156.20 | 171.20 | | 1.00 | 15.00 | 5.60 | 5.20 | 5.40 | | 81.00 | cross road 1 |
| | 171.20 | 186.20 | | 1.00 | 15.00 | 5.20 | 5.50 | 5.35 | | 80.25 | |
| | 186.20 | 200.20 | | 1.00 | 14.00 | 5.50 | 5.30 | 5.40 | | 75.60 | cross road 2 |
| | 200.20 | 215.20 | | 1.00 | 15.00 | 5.30 | 5.50 | 5.40 | | 81.00 | |
| | 215.20 | 230.20 | | 1.00 | 15.00 | 5.50 | 5.30 | 5.40 | | 81.00 | |
| | 230.20 | 245.20 | | 1.00 | 15.00 | 5.30 | 5.70 | 5.50 | | 82.50 | |
| | 245.20 | 260.20 | | 1.00 | 15.00 | 5.70 | 5.70 | 5.70 | | 85.50 | |
| | 260.20 | 275.20 | | 1.00 | 15.00 | 5.70 | 6.00 | 5.85 | | 87.75 | |
| | 275.20 | 290.20 | | 1.00 | 15.00 | 6.00 | 6.00 | 6.00 | | 90.00 | |
| | 290.20 | 305.20 | | 1.00 | 15.00 | 6.00 | 5.70 | 5.85 | | 87.75 | |
| | 305.20 | 320.20 | | 1.00 | 15.00 | 5.70 | 6.30 | 6.00 | | 90.00 | |
| | 320.20 | 335.20 | | 1.00 | 15.00 | 6.30 | 5.60 | 5.95 | | 89.25 | |
| | 335.20 | 350.20 | | 1.00 | 15.00 | 5.60 | 6.00 | 5.80 | | 87.00 | |
| | 350.20 | 365.20 | | 1.00 | 15.00 | 6.00 | 5.50 | 5.75 | | 86.25 | |
| | 365.20 | 380.20 | | 1.00 | 15.00 | 5.50 | 5.10 | 5.30 | | 79.50 | |

Consultant

Assistant Engineer

AE(W2) 19/01/18

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

**Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.**

| BOQ Item No | Description Chainage | | Side | Nos | L | B1 | B2 | Avg width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 380.20 | 395.20 | | 1.00 | 15.00 | 5.10 | 5.50 | 5.30 | | 79.50 | |
| | 395.20 | 413.20 | | 1.00 | 18.00 | 5.50 | 6.00 | 5.75 | | 103.50 | |
| | 413.20 | 415.20 | | 1.00 | 2.00 | 6.30 | 6.50 | 6.40 | | 12.80 | Approach |
| | **For Laying BC=22/01/2018** | | | | | | | | | | |
| | **2nd cross** | | | | | | | | | | |
| | **From High Tension Wire Road** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 6.50 | 5.80 | 6.15 | | 92.25 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 5.80 | 5.40 | 5.60 | | 84.00 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 5.40 | 5.80 | 5.60 | | 84.00 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 5.80 | 5.70 | 5.75 | | 86.25 | |
| | 60.00 | 75.00 | | 1.00 | 15.00 | 5.70 | 5.50 | 5.60 | | 84.00 | |
| | 75.00 | 90.00 | | 1.00 | 15.00 | 5.50 | 5.80 | 5.65 | | 84.75 | |
| | 90.00 | 105.00 | | 1.00 | 15.00 | 5.80 | 4.90 | 5.35 | | 80.25 | |
| | 105.00 | 120.00 | | 1.00 | 15.00 | 4.90 | 4.40 | 4.65 | | 69.75 | |
| | 120.00 | 135.00 | | 1.00 | 15.00 | 4.40 | 5.30 | 4.85 | | 72.75 | |
| | 135.00 | 150.00 | | 1.00 | 15.00 | 5.30 | 5.10 | 5.20 | | 78.00 | |
| | 150.00 | 156.20 | | 1.00 | 6.20 | 5.10 | 5.60 | 5.35 | | 33.17 | |
| | 156.20 | 171.20 | | 1.00 | 15.00 | 5.60 | 5.20 | 5.40 | | 81.00 | cross road 1 |
| | 171.20 | 186.20 | | 1.00 | 15.00 | 5.20 | 5.50 | 5.35 | | 80.25 | |
| | 186.20 | 200.20 | | 1.00 | 14.00 | 5.50 | 5.30 | 5.40 | | 75.60 | cross road 2 |
| | 200.20 | 215.20 | | 1.00 | 15.00 | 5.30 | 5.50 | 5.40 | | 81.00 | |
| | 215.20 | 230.20 | | 1.00 | 15.00 | 5.50 | 5.30 | 5.40 | | 81.00 | |
| | 230.20 | 245.20 | | 1.00 | 15.00 | 5.30 | 5.70 | 5.50 | | 82.50 | |
| | 245.20 | 260.20 | | 1.00 | 15.00 | 5.70 | 5.70 | 5.70 | | 85.50 | |
| | 260.20 | 275.20 | | 1.00 | 15.00 | 5.70 | 6.00 | 5.85 | | 87.75 | |
| | 275.20 | 290.20 | | 1.00 | 15.00 | 6.00 | 6.00 | 6.00 | | 90.00 | |
| | 290.20 | 305.20 | | 1.00 | 15.00 | 6.00 | 5.70 | 5.85 | | 87.75 | |
| | 305.20 | 320.20 | | 1.00 | 15.00 | 5.70 | 6.30 | 6.00 | | 90.00 | |
| | 320.20 | 335.20 | | 1.00 | 15.00 | 6.30 | 5.60 | 5.95 | | 89.25 | |
| | 335.20 | 350.20 | | 1.00 | 15.00 | 5.60 | 6.00 | 5.80 | | 87.00 | |
| | 350.20 | 365.20 | | 1.00 | 15.00 | 6.00 | 5.50 | 5.75 | | 86.25 | |
| | 365.20 | 380.20 | | 1.00 | 15.00 | 5.50 | 5.10 | 5.30 | | 79.50 | |
| | 380.20 | 395.20 | | 1.00 | 15.00 | 5.10 | 5.50 | 5.30 | | 79.50 | |
| | 395.20 | 413.20 | | 1.00 | 18.00 | 5.50 | 6.00 | 5.75 | | 103.50 | |
| | 413.20 | 415.20 | | 1.00 | 2.00 | 6.30 | 6.50 | 6.40 | | 12.80 | Approach |

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

**Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.**

| BOQ Item No | Description / Chainage | | Side | Nos | L | B1 | B2 | Avg width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Cross Road 1 in 2nd Cross** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 3.70 | 4.10 | 3.90 | | 58.50 | |
| | 15.00 | 31.00 | | 1.00 | 16.00 | 4.10 | 4.10 | 4.10 | | 65.60 | |
| | **Cross Road 2 in 2nd Cross** | | | | | | | | | 0.00 | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 4.70 | 4.70 | 4.70 | | 70.50 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 4.70 | 4.70 | 4.70 | | 70.50 | |
| | 30.00 | 36.00 | | 1.00 | 6.00 | 4.70 | 3.70 | 4.20 | | 25.20 | |
| | **3rd Cross Road,muniswamappa** | | | | | | | | | | |
| | **Aditya Springs Apparment** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 2.00 | 2.00 | 2.00 | | 30.00 | Only Road Cut |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 2.00 | 2.00 | 2.00 | | 30.00 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 2.00 | 2.00 | 2.00 | | 30.00 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 2.00 | 2.00 | 2.00 | | 30.00 | |
| | 60.00 | 75.00 | | 1.00 | 15.00 | 2.00 | 2.00 | 2.00 | | 30.00 | |
| | 75.00 | 85.00 | | 1.00 | 10.00 | 2.00 | 1.80 | 1.90 | | 19.00 | |
| | **2nd Cross Road, Muniswamappa Layout** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 6.20 | 5.80 | 6.00 | | 90.00 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 5.80 | 5.50 | 5.65 | | 84.75 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 5.50 | 5.30 | 5.40 | | 81.00 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 5.30 | 5.40 | 5.35 | | 80.25 | |
| | 60.00 | 75.00 | | 1.00 | 15.00 | 5.40 | 5.00 | 5.20 | | 78.00 | |
| | 75.00 | 90.00 | | 1.00 | 15.00 | 5.00 | 5.20 | 5.10 | | 76.50 | |
| | 90.00 | 105.00 | | 1.00 | 15.00 | 5.20 | 5.10 | 5.15 | | 77.25 | |
| | 105.00 | 120.00 | | 1.00 | 15.00 | 5.10 | 5.30 | 5.20 | | 78.00 | |
| | 120.00 | 135.00 | | 1.00 | 15.00 | 5.30 | 5.70 | 5.50 | | 82.50 | |
| | 135.00 | 150.00 | | 1.00 | 15.00 | 5.70 | 5.60 | 5.65 | | 84.75 | |
| | 150.00 | 157.80 | | 1.00 | 7.80 | 5.60 | 5.90 | 5.75 | | 44.85 | |
| | **1st Cross Road,Muniswamappa layout** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 5.30 | 5.80 | 5.55 | | 83.25 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 5.80 | 5.90 | 5.85 | | 87.75 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 5.90 | 5.90 | 5.90 | | 88.50 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 5.90 | 5.70 | 5.80 | | 87.00 | |

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

**Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.**

| BOQ Item No | Description Chainage | | Side | Nos | L | B1 | B2 | Avg width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 60.00 | 70.00 | | 1.00 | 10.00 | 5.70 | 5.80 | 5.75 | | 57.50 | |
| | **1st A Cross Road,Muniswamappa Layout** | | | | | | | | | | |
| | 0.00 | 2.00 | | 1.00 | 2.00 | 6.30 | 6.50 | 6.40 | | 12.80 | Approach |
| | 2.00 | 17.00 | | 1.00 | 15.00 | 6.20 | 5.90 | 6.05 | | 90.75 | |
| | 17.00 | 32.00 | | 1.00 | 15.00 | 5.90 | 5.80 | 5.85 | | 87.75 | |
| | 32.00 | 47.00 | | 1.00 | 15.00 | 5.80 | 5.70 | 5.75 | | 86.25 | |
| | 47.00 | 67.00 | | 1.00 | 20.00 | 5.70 | 6.56 | 6.13 | | 122.60 | |
| | | | | | | | **Total Qty in Sqm** | | | **6739.94** | |

**Measurements recorded on 19/01/18**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 28 | KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem | | | | | | | | | | |
| | **2nd cross** | | | | | | | | | | |
| | **From High Tension Wire Road** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 6.50 | 5.80 | 6.15 | 0.05 | 4.61 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 5.80 | 5.40 | 5.60 | 0.05 | 4.20 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 5.40 | 5.80 | 5.60 | 0.05 | 4.20 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 5.80 | 5.70 | 5.75 | 0.05 | 4.31 | |
| | 60.00 | 75.00 | | 1.00 | 15.00 | 5.70 | 5.50 | 5.60 | 0.05 | 4.20 | |
| | 75.00 | 90.00 | | 1.00 | 15.00 | 5.50 | 5.80 | 5.65 | 0.05 | 4.24 | |
| | 90.00 | 105.00 | | 1.00 | 15.00 | 5.80 | 4.90 | 5.35 | 0.05 | 4.01 | |
| | 105.00 | 120.00 | | 1.00 | 15.00 | 4.90 | 4.40 | 4.65 | 0.05 | 3.49 | |
| | 120.00 | 135.00 | | 1.00 | 15.00 | 4.40 | 5.30 | 4.85 | 0.05 | 3.64 | |
| | 135.00 | 150.00 | | 1.00 | 15.00 | 5.30 | 5.10 | 5.20 | 0.05 | 3.90 | |
| | 150.00 | 156.20 | | 1.00 | 6.20 | 5.10 | 5.60 | 5.35 | 0.05 | 1.66 | |
| | 156.20 | 171.20 | | 1.00 | 15.00 | 5.60 | 5.20 | 5.40 | 0.05 | 4.05 | cross road 1 |
| | 171.20 | 186.20 | | 1.00 | 15.00 | 5.20 | 5.50 | 5.35 | 0.05 | 4.01 | |
| | 186.20 | 200.20 | | 1.00 | 14.00 | 5.50 | 5.30 | 5.40 | 0.05 | 3.78 | cross road 2 |
| | 200.20 | 215.20 | | 1.00 | 15.00 | 5.30 | 5.50 | 5.40 | 0.05 | 4.05 | |
| | 215.20 | 230.20 | | 1.00 | 15.00 | 5.50 | 5.30 | 5.40 | 0.05 | 4.05 | |

62.40

Consultant

Assistant Engineer

AE(Ltg) 19/1/18

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

**Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.**

| BOQ Item No | Description Chainage | | Side | Nos | L | B1 | B2 | Avg width | Depth | Quantity 62.40 | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 230.20 | 245.20 | | 1.00 | 15.00 | 5.30 | 5.70 | 5.50 | 0.05 | 4.13 | |
| | 245.20 | 260.20 | | 1.00 | 15.00 | 5.70 | 5.70 | 5.70 | 0.05 | 4.28 | |
| | 260.20 | 275.20 | | 1.00 | 15.00 | 5.70 | 6.00 | 5.85 | 0.05 | 4.39 | |
| | 275.20 | 290.20 | | 1.00 | 15.00 | 6.00 | 6.00 | 6.00 | 0.05 | 4.50 | |
| | 290.20 | 305.20 | | 1.00 | 15.00 | 6.00 | 5.70 | 5.85 | 0.05 | 4.39 | |
| | 305.20 | 320.20 | | 1.00 | 15.00 | 5.70 | 6.30 | 6.00 | 0.05 | 4.50 | |
| | 320.20 | 335.20 | | 1.00 | 15.00 | 6.30 | 5.60 | 5.95 | 0.05 | 4.46 | |
| | 335.20 | 350.20 | | 1.00 | 15.00 | 5.60 | 6.00 | 5.80 | 0.05 | 4.35 | |
| | 350.20 | 365.20 | | 1.00 | 15.00 | 6.00 | 5.50 | 5.75 | 0.05 | 4.31 | |
| | 365.20 | 380.20 | | 1.00 | 15.00 | 5.50 | 5.10 | 5.30 | 0.05 | 3.98 | |
| | 380.20 | 395.20 | | 1.00 | 15.00 | 5.10 | 5.50 | 5.30 | 0.05 | 3.98 | |
| | 395.20 | 413.20 | | 1.00 | 18.00 | 5.50 | 6.00 | 5.75 | 0.05 | 5.18 | |
| | 413.20 | 415.20 | | 1.00 | 2.00 | 6.30 | 6.50 | 6.40 | 0.05 | 0.64 | Approach |
| | | | | | | | **Total Qty in Cum** | | | **115.47** | |
| **Measurements recorded on 22/01/18** | | | | | | | | | | | |
| 31 29 | KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling | | | | | | | | | | |
| | **2nd cross** | | | | | | | | | | |
| | **From High Tension Wire Road** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 6.50 | 5.80 | 6.15 | 0.04 | 3.69 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 5.80 | 5.40 | 5.60 | 0.04 | 3.36 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 5.40 | 5.80 | 5.60 | 0.04 | 3.36 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 5.80 | 5.70 | 5.75 | 0.04 | 3.45 | |
| | 60.00 | 75.00 | | 1.00 | 15.00 | 5.70 | 5.50 | 5.60 | 0.04 | 3.36 | |
| | 75.00 | 90.00 | | 1.00 | 15.00 | 5.50 | 5.80 | 5.65 | 0.04 | 3.39 | |
| | 90.00 | 105.00 | | 1.00 | 15.00 | 5.80 | 4.90 | 5.35 | 0.04 | 3.21 | |
| | 105.00 | 120.00 | | 1.00 | 15.00 | 4.90 | 4.40 | 4.65 | 0.04 | 2.79 | |
| | 120.00 | 135.00 | | 1.00 | 15.00 | 4.40 | 5.30 | 4.85 | 0.04 | 2.91 | |
| | 135.00 | 150.00 | | 1.00 | 15.00 | 5.30 | 5.10 | 5.20 | 0.04 | 3.12 | |
| | 150.00 | 156.20 | | 1.00 | 6.20 | 5.10 | 5.60 | 5.35 | 0.04 | 1.33 | |
| | 156.20 | 171.20 | | 1.00 | 15.00 | 5.60 | 5.20 | 5.40 | 0.04 | 3.24 | cross road 1 |

115.49

37.21

Consultant

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

**Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.**

| BOQ Item No | Description Chainage | | Side | Nos | L | B1 | B2 | Avg width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 171.20 | 186.20 | | 1.00 | 15.00 | 5.20 | 5.50 | 5.35 | 0.04 | 3.21 | |
| | 186.20 | 200.20 | | 1.00 | 14.00 | 5.50 | 5.30 | 5.40 | 0.04 | 3.02 | cross road 2 |
| | 200.20 | 215.20 | | 1.00 | 15.00 | 5.30 | 5.50 | 5.40 | 0.04 | 3.24 | |
| | 215.20 | 230.20 | | 1.00 | 15.00 | 5.50 | 5.30 | 5.40 | 0.04 | 3.24 | |
| | 230.20 | 245.20 | | 1.00 | 15.00 | 5.30 | 5.70 | 5.50 | 0.04 | 3.30 | |
| | 245.20 | 260.20 | | 1.00 | 15.00 | 5.70 | 5.70 | 5.70 | 0.04 | 3.42 | |
| | 260.20 | 275.20 | | 1.00 | 15.00 | 5.70 | 6.00 | 5.85 | 0.04 | 3.51 | |
| | 275.20 | 290.20 | | 1.00 | 15.00 | 6.00 | 6.00 | 6.00 | 0.04 | 3.60 | |
| | 290.20 | 305.20 | | 1.00 | 15.00 | 6.00 | 5.70 | 5.85 | 0.04 | 3.51 | |
| | 305.20 | 320.20 | | 1.00 | 15.00 | 5.70 | 6.30 | 6.00 | 0.04 | 3.60 | |
| | 320.20 | 335.20 | | 1.00 | 15.00 | 6.30 | 5.60 | 5.95 | 0.04 | 3.57 | |
| | 335.20 | 350.20 | | 1.00 | 15.00 | 5.60 | 6.00 | 5.80 | 0.04 | 3.48 | |
| | 350.20 | 365.20 | | 1.00 | 15.00 | 6.00 | 5.50 | 5.75 | 0.04 | 3.45 | |
| | 365.20 | 380.20 | | 1.00 | 15.00 | 5.50 | 5.10 | 5.30 | 0.04 | 3.18 | |
| | 380.20 | 395.20 | | 1.00 | 15.00 | 5.10 | 5.50 | 5.30 | 0.04 | 3.18 | |
| | 395.20 | 413.20 | | 1.00 | 18.00 | 5.50 | 6.00 | 5.75 | 0.04 | 4.14 | |
| | 413.20 | 415.20 | | 1.00 | 2.00 | 6.30 | 6.50 | 6.40 | 0.04 | 0.51 | Approach |
| | **Cross Road 1 in 2nd Cross** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 3.70 | 4.10 | 3.90 | 0.04 | 2.34 | |
| | 15.00 | 31.00 | | 1.00 | 16.00 | 4.10 | 4.10 | 4.10 | 0.04 | 2.62 | |
| | **Cross Road 2 in 2nd Cross** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 4.70 | 4.70 | 4.70 | 0.04 | 2.82 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 4.70 | 4.70 | 4.70 | 0.04 | 2.82 | |
| | 30.00 | 36.00 | | 1.00 | 6.00 | 4.70 | 3.70 | 4.20 | 0.04 | 1.01 | |
| | **2nd Cross Road, Muniswamappa Layout** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 6.20 | 5.80 | 6.00 | 0.04 | 3.60 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 5.80 | 5.50 | 5.65 | 0.04 | 3.39 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 5.50 | 5.30 | 5.40 | 0.04 | 3.24 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 5.30 | 5.40 | 5.35 | 0.04 | 3.21 | |
| | 60.00 | 75.00 | | 1.00 | 15.00 | 5.40 | 5.00 | 5.20 | 0.04 | 3.12 | |
| | 75.00 | 90.00 | | 1.00 | 15.00 | 5.00 | 5.20 | 5.10 | 0.04 | 3.06 | |
| | 90.00 | 105.00 | | 1.00 | 15.00 | 5.20 | 5.10 | 5.15 | 0.04 | 3.09 | |
| | 105.00 | 120.00 | | 1.00 | 15.00 | 5.10 | 5.30 | 5.20 | 0.04 | 3.12 | |

BF 37.21

CBR 129.81

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Pal
Bangalore - 560 092

**Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.**

| BOQ Item No | Description Chainage | | Side | Nos | L | B1 | B2 | Avg width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 120.00 | 135.00 | | 1.00 | 15.00 | 5.30 | 5.70 | 5.50 | 0.04 | 3.30 | |
| | 135.00 | 150.00 | | 1.00 | 15.00 | 5.70 | 5.60 | 5.65 | 0.04 | 3.39 | |
| | 150.00 | 157.80 | | 1.00 | 7.80 | 5.60 | 5.90 | 5.75 | 0.04 | 1.79 | |
| | **1st Cross Road,Muniswamappa layout** | | | | | | | | | | |
| | 0.00 | 15.00 | | 1.00 | 15.00 | 5.30 | 5.80 | 5.55 | 0.04 | 3.33 | |
| | 15.00 | 30.00 | | 1.00 | 15.00 | 5.80 | 5.90 | 5.85 | 0.04 | 3.51 | |
| | 30.00 | 45.00 | | 1.00 | 15.00 | 5.90 | 5.90 | 5.90 | 0.04 | 3.54 | |
| | 45.00 | 60.00 | | 1.00 | 15.00 | 5.90 | 5.70 | 5.80 | 0.04 | 3.48 | |
| | 60.00 | 70.00 | | 1.00 | 10.00 | 5.70 | 5.80 | 5.75 | 0.04 | 2.30 | |
| | **1st A Cross Road,Muniswamappa Layout** | | | | | | | | | | |
| | 0.00 | 2.00 | | 1.00 | 2.00 | 6.30 | 6.50 | 6.40 | 0.04 | 0.51 | Approach |
| | 2.00 | 17.00 | | 1.00 | 15.00 | 6.20 | 5.90 | 6.05 | 0.04 | 3.63 | |
| | 17.00 | 32.00 | | 1.00 | 15.00 | 5.90 | 5.80 | 5.85 | 0.04 | 3.51 | |
| | 32.00 | 47.00 | | 1.00 | 15.00 | 5.80 | 5.70 | 5.75 | 0.04 | 3.45 | |
| | 47.00 | 67.00 | | 1.00 | 20.00 | 5.70 | 6.56 | 6.13 | 0.04 | 4.90 | |
| | | | | | | | **Total Qty in Cum** | | | **170.46** | |
| **Measurements recorded on 25/01/18** | | | | | | | | | | | |
| 37 | KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17) | | | | | | | | | | |
| | 2nd crossFrom High Tension Wire Road - EDGE LINE | | | 2 | | 413.2 | 0.1 | | | 82.64 | |
| | 2nd crossFrom High Tension Wire Road - CENTER LINE | | | 69 | | 3 | 0.1 | | | 20.7 | |
| | 2nd Cross Road, Muniswamappa Layout-EDGE LINE | | | 2 | | 157.8 | 0.1 | | | 31.56 | |
| | 2nd Cross Road, Muniswamappa Layout-CENTER LINE | | | 26 | | 3 | 0.1 | | | 7.8 | |

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

**Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.**

| BOQ Item No | Description / Chainage | Side | Nos | L | B1 | B2 | Avg width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1st Cross Road, Muniswamappa Layout-EDGE LINE | | | | 2 | 70 | 0.1 | | 14 | |
| | 1st Cross Road, Muniswamappa Layout-CENTER LINE | | | | 11 | 3 | 0.1 | | 3.3 | |
| | 1st A Cross Road, Muniswamappa Layout-EDGE LINE | | | | 2 | 67 | 0.1 | | 13.4 | |
| | 1st A Cross Road, Muniswamappa Layout-CENTER LINE | | | | 11 | 3 | 0.1 | | 3.3 | |
| | | | | | | **Total Qty in Sqm** | | | 176.7 | |
| 77 | Add cost of Waste Plastic @ 8% of Bitumen Weight | | | | | | | | | |
| | Bitumen = 141 kg/cum | | | | | **Total Qty in Kgs** | | | **1922.84** | |

TEJUS CONSULTANTS

Consultant

A.N.D
AE(Civil)
03/02/18

Assistant Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.
5/2/18

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092